CLAIMS

(Currently Amended) A method comprising:
 capturing a first two-dimensional image of an object;
 causing a relative motion between the object and a field of view of a capturing
 device to expose a different aspect of the object to the capturing device;

capturing a second two-dimensional image of the object;

deriving a first three-dimensional <u>digital</u> representation of the object from the first and second two-dimensional images; and

creating a second three-dimensional <u>digital</u> representation by an alternative method.

- (Currently Amended) The method of Claim 1 further comprising:
 <u>automatically</u> combining elements of the first three-dimensional <u>digital</u>
 representation with elements of the second three-dimensional <u>digital</u> representation to improve quality.
- 3. (Original) The method of Claim 1 further comprising:
 capturing with the capturing device an intensity gradient based threedimensional representation of the object.
- 4. (Original) The method of Claim 1 wherein the capturing device comprises a linear image sensing array.
- 5. (Currently Amended) A method comprising: capturing a first three-dimensional <u>digital</u> representation of a portion of an object using a first capture method;

capturing a second three-dimensional <u>digital</u> representation of a portion of the object using a second capture method; and

<u>automatically</u> combining elements from the first and second three-dimensional <u>digital</u> representations to improve quality.

- 6. (Original) The method of Claim 5 wherein at least the first capture method uses active ranging and at least the second capture method uses passive imaging.
- 7. (Original) The method of Claim 6 wherein the first capture method is intensity gradient ranging and wherein the second capture method is stereoscopy.
- 8. (Currently Amended) An apparatus comprising:

 a digitizer capable of using any of at least two capture methods to capture a three-dimensional <u>digital</u> representation of at least a portion of an object.
- 9. (Currently Amended) The apparatus of Claim 8 further comprising:
 a processor to <u>automatically</u> combine elements from three-dimensional <u>digital</u>
 representations captured with at least two captured methods to improve quality.
- 10. (Original) The apparatus of Claim 8 wherein at least a first capture method uses active ranging and at least a second capture method uses passive imaging.
- 11. (Original) The apparatus of Claim 10 wherein the first capture method is intensity gradient ranging and wherein the second capture method is stereoscopy.
- 12. (Original) The apparatus of Claim 8 wherein the digitizer comprises:

 an image sensing array (ISA) to capture image data in a first mode and tilt data in a second mode; and

a gravitational orientation unit (GOU) responsive to a relative orientation of gravity to alter light falling on the ISA in relation to the relative orientation of gravity.

- 13. (Original) The apparatus of Claim 12 wherein the GOU comprises: a pendulum having a reflective element mounted thereon.
- 14. (Original) The apparatus of Claim 13 further comprising:
 a light emitting diode (LED) mounted to cast light on the reflective element when the LED is on.
- 15. (Currently Amended) The apparatus of Claim 8 wherein the digitizer comprises: an image sensor array (ISA) to capture three-dimensional data about an object; a lens/aperture assembly having a plurality of lens/aperture combinations; and a controller to automatically select a suitable lens/aperture combination—based on at least a distance of the object from the ISA.
- 16. (Currently Amended) The apparatus of Claim 15 wherein each lens/aperture combination is a lens barrelan independent component.
- 17. (Previously Presented) The apparatus of Claim 8 wherein the digitizer comprises:
 - a shaft;
 - a housing;
 - a bearing coupled to the housing to rotate the housing relative to the shaft; an image sensing array (ISA) coupled to the housing; and
- a spring to bias the shaft relative to the housing, such that successive captures by the image sensing array are consistently aligned with respect to one another.

- 18. (Original) The apparatus of Claim 17 comprising a bias spring along each bearing axis having a tolerance above a threshold.
- 19. (New) The apparatus of Claim 8 wherein the digitizer is capable of performing at least two capture methods using a same image sensing array (ISA).
- 20. (New) The apparatus of Claim 8 wherein one of the capture methods is stereoscopy.
- 21. (New) The method of Claim 5 wherein the capturing of the first three dimensional digital representation and the second three dimensional digital representation is performed using a same image sensing array (ISA).
- 22. (New) The method of Claim 5 wherein one of the capture methods is stereoscopy.